Table 1: May 14, 1997 - Subsystem Status.

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	• Running Production for TRMM SIM #2 Data at the DAAC and at SCF. (Cooper) • Running post-production programs to get data in ASCII format. (Filer) • Analyzing data from TRMM SIM #2. (Hess, Nguyen, Rodier, Spence, Weaver) • Continue working with SDPF and FDF to insure that all TRMM SIM #2 data has been sent to the LaRC DAAC. (Weaver) • Continue working operations issues for TRMM SIM #2. (Weaver) • Continuing development of the Release 2 flight ready system. (Anselmo, Cooper, Escuadra, Hess, Rodier)	
2.0	Chang	• Prepared for and attended ECS production rules meeting. (Chang) • Completed 4 test cases of ERBE-like subsystem runs for finding out “What would be the effect on estimates of cloud forcing from the EOS-PM CERES data if we could not do a deep-space calibration to get accurate offsets?" (Chang) • Started cleaning up the ERBE-like directories and files for the release 2 delivery to the DAAC. (Chang) • Started working on ERBE-like Test Plan for the release 2 delivery to the DAAC. (Chang and Snell) • Worked on metadata implementation for ES8 to ES8-HDF conversion program. (Snell) • Modifying the ES8 plot program. (Liu). • Modified the old ADMs version of ERBE-like inversion program to include FAPs/RAPs and rapid retrace flags and to use the latest ES8 file format. (Chang) • Created another set of PCF templates to run the old ADMs version of ERBE-like inversion code using old ADMs but new snow maps, new LW thresholds, and new albedo thresholds. (Chang) • Processed 85/04 and 86/01 ERBS data through ERBE-like subsystems using old ADMs and new snow map and thresholds to produce ES9 for Dave. (Chang) • Working on the 8 sigma problem. (Chang)	

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SS No.	SS Lead	Status	Problems
3.0	Chang	Combined with above.	
4.1	Murray	• Integrated new version of Metadata Wrappers into cloud code. (Sun-Mack) • Worked on finding cut-off gamma angle by using Cox/Munk sunglint probability, instead of Stowe sunglint test. As requested by Larry Stowe at the last CERES science meeting, made postcript plots sunglint probability and "number of pixels" versus gamma angles and averaged channel one reflectance versus gamma angle, for six different sunglint probability cases. (Sun-Mack) • Worked with Yan Chan in the derivation of emittances for chan 3 and chan 5. (Sun-Mack) • Compared performance of toolkit and non-toolkit solar geometry functions. Found the non-toolkit version is faster, but both are sufficiently fast. The non-toolkit routine does not return the solar azimuth (which is needed) so we will stick with the toolkit version. (McIntire) • Unsuccessfully attempted to compile clouds retrieval code with the SGI/Cray compiler on blizzard. After discussion with Joe Stassi, decided to wait for the next delivery of the compiler before trying to figure out why compilation was unsuccessful. (McIntire) • Began looking at VIRS 1B metadata with assistance from Alice Fan and the toolkit people. (McIntire) • Began work re-coding Alice Fan's metadata routines in C. (McIntire) • Worked with Yan Chen to derive data as needed to produce the Cookiedough/MOA/SSF gridded product. (Murray) • Modified the production code to test the use of the Correlated K ClearSky Brightness Temperature in place of the Historical ClearSky Brightness Temperature. Bryan Baum tells us to use this approach in the future. Began modifications to incorporate this change on a permanent basis. (Murray) • Production Rules Meeting. (All)	

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4.2	Murray	Combined with above.	
4.3	Murray	Combined with above.	
4.4	McKinley	• Completed major portion of rewriting software handling imager pixel processing to decrease runtime between 40 and 60 percent. Processed multiple data sets for timing information. (Miller) • Successfully tested subsystem with IES files simulating all CERES scan modes. (McKinley, Miller) • Tests revealed a flaw in cereslib subroutine JULCAL in ceres_time. Modified and tested JULCAL logic to correctly handle transitions at top of minute/hour/day/month/year/leap day (McKinley). • Added quality control information on instrument and elevation scan mode, surface types, and total imager radiance. (Miller) • Compiled and executed software under the SGI beta release of the Cray compiler (7.1.1). SGI will change handling of partial word integer for 7.2 release. Under optimization level 2, only minor increase in runtime (8 percent, but workaround for integer word problem was included). (Miller) • Prepared strawman description of quality control, product specific metadata, and quality assurance flag for Software Engineering Committee (McKinley, Miller) • Received preliminary timing analysis from Dr Neil on code. Expect formal report and recommended modification in three weeks. (Miller) • Coordinated radiance unit correction with Mr Fred Rose and SARB Team. Received Dr Baum's permission to use SSF standard radiance units in cloud retrieval. (Miller) • Obtained four constants necessary to obtain reflectance and albedo from VIRS radiance. (Miller)	

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4.5	Nolan	• Submitted Release 2 Versions of the SW and LW surface flux algorithm modules, surf_typdef.f90, surf_lw_model_a.f90, surf_lw_model_b.f90 and surf_sw_model_a.f90, and their corresponding README files to CERESlib. (Nolan, Franklin) • Initiated testing of Subsystem 4.5 and 4.6 using SGI/Cray compiler on blizzard. The code was not successfully compiled. Testing will resume when the 7.2 Beta version of the SGI/Cray compiler is available. (Nolan) • Continued modification of Subsystem 4.5 and 4.6 software to use Toolkit time conversion routines and to produce actual start and stop time on QC report in ASCII UTC. (Nolan) • Continued prologue documentation for the SSF to HDF post processor software. (Franklin) • Continued work to add Metadata information to SSF files. Successfully implemented calls to metadata wrappers in the SSF to HDF post processor code. (Franklin) • Initiated work to reduce the execution time of the SSF to HDF post processor code on thunder by varying the number of records written to the HDF file at one time. (Franklin)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• Studied Fred's code for interpolating meteorological data for the floating surface levels when using the surface elevation from the SSF/TSI input product instead of the MOA product. (Gupta) • Began investigating a problem with SARB's usage of SSF data in determining the clear sky surface skin temperature. (Coleman) • Began looking at ways to incorporate cloud overlap conditions into the SARB Subsystems. (Coleman)	
7.2	Coleman	Combined with above.	
12.0	Coleman	• Attended IDL class May 5-8. (Kizer) • Incorporated sample SMOBA ozone data into the Regrid MOA Subsystem. (Kizer)	
7.1	Jimenez	Combined with below	

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SS No.	SS Lead	Status	Problems
8.0	Jimenez	Combined with below	
10.0	Jimenez	• Assisted in trying to add metadata to the ES-8 HDF-EOS file. (Jimenez) • Continued working on visible optical depth interpolation and averaging. (Jimenez) • Updated io_data module code to generate SRBAVG and AVG/ZAVG output product files in HDF format by default and generate binary files in addition to HDF files only when the flag is set. (Raju) • Began updating the open, read routines which read PostMOA file records into TISA subsystem code. Added range checking code to multiple module to perform range checks on PostMOA data before it is written to the files. (Raju) • Participated in providing information about TISA averaging subsystems to the ECS representatives to discuss production rules for the B0 version of the ECS production system. (Raju, Jimenez) • Participated in providing Dave Young the information of how the subsystem code is presently handling the temporal data gaps in the GGEO data. (Jimenez, Raju)	
6.0	McKoy	TISA Gridding has no status update.	
9.0	McKoy	Combined with above.	
11.0	Stassi/ Fan	• Wrote routines to reformat the Canadian orbital information into the McIdas navigational header format and to use this information for navigating the Canadian data. Currently debugging these routines. (Stassi)	

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CERESlib	Stassi/ Fan	• Tested the SGI/Cray F90 compiler on blizzard. Found some problems with the way 1- and 2-byte integers are handled. Also, the compiler fails to default to local .mod files when they are also available through the library. We have reported these problems to SGI. They are aware of the first and have already fixed it. They are now looking into the second problem. The 7.2 Beta version should be available soon and should remedy these problems. (Miller, Nolan, Stassi) • Released ReadMeta and ReadHeader subroutines to the team. Found that if a HDF file is not closed before Writing metadata the last record will be overwritten. It is recommended to close both HDF and nonHDF before writing metadata. (Franklin, Fan) • Found that the SGI complier needs a dummy record for the product specific attribute array, if the next optional input parameter InputPointer is provided. (Fan) • Started on a version of the Toolkit wrappers for TK5.2. (Fan) • A C WriteMeta interface in under developed for Ada. (McIntire)	
CM	Ayers	• The CM Team met with Ms. Mitchum (NASA), Ms. Nolan, Ms. Fan, and Ms. O'Bierne on Thursday, May 8 to discuss production processing and metadata.	
IST	Flug	• Prepared for the comparison of the “Snap/BDS Merge Program”. Created script file to get BDS file and the snap file for the comparison. (Nguyen) • To update the IST, a Perl program was written to create a tab-delimited file for the TDRSS Contact Schedule file on the web page. (Nguyen) • Solved web page related problem such as the TDRSS contact schedule file showed only one line in the web page (snap file was missed). (Nguyen) • Continuously checked files from TRMM simulations for the four work stations: Blackhole, Opticalmom, Lposun and Flug. (Nguyen)	